

Notice of Allowability

Application No.

09/923,825

Examiner

Jonathan G. Sterrett

Applicant(s)

DANIEL ET AL.

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3623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1-10-06.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 9-24-01
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Susanna M. Diaz
SUSANNA M. DIAZ
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Enrique Mora Reg. 36,875 on 10 January 2006.

2. Examiner amends **Claims 1 and 9**. Currently **Claims 1-16** are pending in the application.

See attached Examiner's Amendment.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

None of the prior art of record, taken individually or in any combination, teach, inter alia, a system and method for providing locomotive maintenance to a specific railroad locomotive by utilizing a database for providing diagnostic information, business decision making information regarding servicing, and utilizing a servicing wizard for providing instructions to the service personnel, and providing a portable input/output device utilizing wireless connectivity at each work site for communicating with said database, using the device, database and servicing wizard to provide at least one set of decision-making criteria, including cost and timeliness for performing services on said equipment, and providing a probabilistic estimation of whether a road locomotive failure will occur with selected equipment before reaching a respective work site traveling over

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the railroad network, and using the criteria above to determine whether or not the selected equipment needs to be serviced, and if so the nature and extent of the service, and also determining a preferred work site in accordance with the business decision and technical criteria as recited in independent **Claims 1 and 9**.

The novelty of the invention is in the combination of the limitations cited in independent **Claims 1 and 9** and not in any specific individual claim limitation.

The prior art reference most closely resembling the applicants claimed invention is Pintelon. While Pintelon discloses using IT to facilitate maintenance management and planning, it lacks providing a probabilistic estimation that a road locomotive failure will occur traveling over the railroad network as an input to determining a preferred maintenance site and determining a preferred site for repair in accordance with a set of prompts entered into the servicing wizard, as recited in **Claims 1 and 9**.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Smith AU 2001255572 A1 discloses a computerized spare parts supply management method for vehicles.

Umehara JP 2002258937 A discloses a maintenance management system for railroads utilizing a Bluetooth wireless communication system.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan G. Sterrett whose telephone number is 571-272-6881. The examiner can normally be reached on 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on 571-272-6729.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JGS

JGS 1-12-06

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